#### Nan Hua Primary School Semestral Assessment 1 - 2007 Mathematics Primary Five

Name	·	(	(1)	Marks		100	
		ary 5 By 2007			<u> </u>		}
Durati	on: 2h	15min		Par	ent's Si	gnatu	re
Section	on A (2	20 marks)			•		,
For ea	ach qu	to 10 carry 1 mark each. Quest estion, four options are given. Correct oval on the Optical Answer	One of	them is th	rry 2 ma ie corre	arks e ct ans	ach. swer.
1.	What	is the value of the digit '8' in 5	489 21	14?			
		8 000 80 000 800 000 8 000 000				(	)
2.	Find	the value of 6 - 3 x 2 + 2				<i>3</i> 1	
	(1) (2) (3) (4)	12 2 8 4				(	)
3.	John dollar	has \$232 005. Round off this a	imount	to the ne	aresť <u>te</u>	n thou	usan
		\$220 000 \$230 000 \$232 000 \$240 000	·			(	) V

- 4. Which of the following fraction is the smallest?

  - ②  $\frac{1}{3}$

  - (4)  $\frac{2}{7}$
- 5.  $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{2}{3} = \frac{2}{3} \times \boxed{\phantom{a}}$

The missing number in the box is \_\_\_\_\_

- (†) 6 (2) 5 (3) 3 (4) 4
- 6. The height of Mrs Samad is about \_\_\_\_\_\_
  - (f) 160 m (g) 1.6 m (d) 16 cm (4) 1.6 cm

8 Y

- 7. In a class,  $\frac{1}{3}$  of the pupils are Malays and  $\frac{2}{5}$  of them are Chinese. What fraction of the class is made up of pupils from other races?

  - (2)  $\frac{2}{3}$

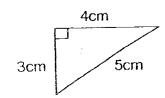
  - $\frac{4}{15}$
- 8. 15:3:27 = 5:1:

What is the missing number in the box?

(1) 7 (2) 5 (3) 3

9.

Find the area of triangle shown below.



- (0) 6 cm² (2) 7.5 cm² (3) 12 cm²
- (4) 20 cm<sup>2</sup>

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10. How many 2-cm cubes can fill up a box measuring 2cm by 4cm by 6cm?

- (1) 24
- (2) 12
- (3) 6
- (4) 4

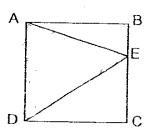
11. 13 + 80  $40 \div 5 = 85$ . What is the missing operation in the box?

- (1)
- (2) -
- (3) ×
- (4) ÷

12.  $\frac{2}{3}$  of a number is 18. What is the number?

- (1) 12
- (2) 18
- (3) 27
- (4) 36

13. ABCD is square.
Given that BC is 12 cm, what is the area of triangle AED?



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- (1) 12 cm<sup>2</sup>
- (2) 24 cm<sup>2</sup>
- (3) 36·cm<sup>2</sup>
- (4) 72 cm²

14.	What is the perimeter of the triangle if the ratio of the is 2:3:5?	e 3 sides	
	(1) 10 cm (2) 20 cm (3) 30 cm (4) 40 cm	. (	)
15.	Leo and Mandy shared some game cards in the rate When Leo gave Mandy 16 game cards, he found the had the same number of cards. How many game chave at first?	nat they ea	cn
	/4)		

90

#### Nan Hua Primary School Semestral Assessment 1 - 2007 Mathematics - Primary Five Booklet B

/80

Name:		<u> </u>	Class: Pr 5	Marks :	/80
Section	B (30 marks)				
C	es 16 to 25 carry question from 2 and write your ar stated.	R to 35 show v	MH WORKINGS CI	eany in one ope	. OO
16. W	/hat is the sum o	$f \ 2\frac{5}{9} \ and \ 1\frac{1}{3}$ ?			
				Ans:	
17.	Subtract $\frac{4}{7}$ from	$4\frac{1}{2}$ .			
			-	Ans:	
18.	How many <u>quar</u>	ters are there i	$14\frac{1}{2}$ ?		
				Ans:	
19.	Complete this n	umber pattern:			
	17, 18, 2	0, 23,	, 32		PY
				Ans :	<u> </u>

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20. What is 
$$\frac{3}{10} \div 3$$
?

۸	
Ans:	
, ii i .	 

21. Divide 2 340 by 15. Round off the quotient to the nearest 100.



22. What is the volume of a cube of side 5 cm?

Ans:	cm	٦3
AHO.	CHI	1

23. Kitty had  $6\frac{3}{4}$  kg of flour. She packed 75 g of it into each plastic bag and sealed each bag. How many bags did he use?

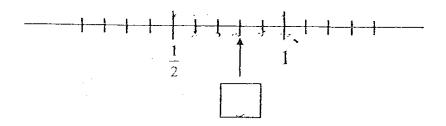
92

Ans: \_\_\_\_\_\_bags

24.	Use the following digits to form the smallest possible 5-digit number and the digit '5' must be in the thousands place.
	1 2 5 9 0
	Ans:
25.	A and B are two different whole numbers whereby
	ĄB
	× AB
	1 4 4
	What is digit <b>A</b> ?
	Ans :
26.	What is the value of 1 + 2 + 3 + + 49 ?
	Ans:
27.	5 men can paint a house in 2 days. How many men are required to paint 2 such houses in a day?
	74
	Ans:men

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28. Fill in the missing fraction. Leave your answer in its simplest form.



Ans:\_\_\_\_

29. What fraction of  $2\ell$  is 100 m $\ell$ ? Give your answer in its simplest form.

Ans:

30. Express  $2\frac{2}{3}$ , in hours and minutes.

Ans: \_\_\_\_h \_\_min

31. Express  $\frac{12}{5}$  km in kilometres and metres.

\$5

Ans: km m

32.	$\frac{2}{5}$ of the pupils in a school are girls	5.		
	If there are 800 girls, how many r	nore boys	than girls are th	ere in
	the school?	. *		
	. •			
	44		Ans :	more
		:		
33.	If a photocopier prints 400 she many sheets of paper can it prin	eets of pa at in 15 mir	per in half an outes?	hour, how
				e e e e
			Ans:	sheets
		·	Alto.	
	2		at their	agos is 70
34.	5	age. The	e sum or men	ages 15 70
	years. How old is Tammy?			
		* 4.7		
		<b>_:</b>		
			<del>.</del>	
			Ans:	yrs old
				•
35	$\frac{3}{4}$ of a tank is filled when 24 l	itres of wa	iter are poured i	nto it.
	What is the capacity of the			
		•		76
-				
			Ans:	· · · · · · · · · · · · · · · · · · ·

Section	C	(50	marks)	ŀ

For each question from 36 to 48, show your workings clearly in the space below it and write your answer in the space provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. Remember to include the units wherever possible.

- 36. Susan had \$27. She spent  $\frac{1}{3}$  of her money on food and
  - $\frac{2}{3}$  of the remainder on transport. How much money had she left?

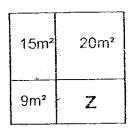
Ans: [3]

37. I spent exactly \$1 for some 5¢ stamps and some 13¢ stamps. How many 5¢ stamps did I buy?

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Ans: [3]

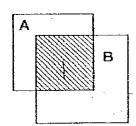
38. The figure below, not drawn to scale, shows a rectangle divided into 4 parts. Find the area of Z. (Hint: All the dimensions are in whole numbers)



Ans		[3]
MIIS		[V]

The figure below consists of 2 squares A and B overlapping each other. The ratio of area of square A to area of square B is 2:3.

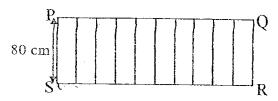
If  $\frac{1}{3}$  of B is shaded, what is the ratio of thelshaded part/to the unshaded part?



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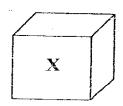
Ans:	[3]
AHS.	

Rectangle PQRS has an area of 11 200 cm². If it can be divided into 10 equal rectangles as shown in the diagrams, what is the breadth of each of the 10 rectangles? The figure is not drawn to scale.



Ans: \_\_\_\_\_\_[3]

41.





The ratio of the volume of cube X to that of cube Y is 8 : 1. What is their difference in volume?

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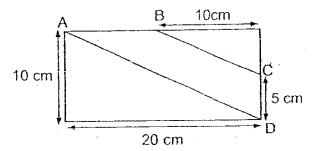
Ans:\_\_\_\_[3]

42. After selling 40 ducks and buying 65 chickens, a farmer had 24 more ducks than chickens. If he had 159 ducks and chickens at first, how many ducks did he have at first?

100

Ans: [4]

43. Study the rectangle below. Express the area of ABCD as a fraction of the whole figure in the simplest form. The figure is not drawn to scale.



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Ans: \_\_\_\_\_[4]

- 44. Jack and Kate shared some cards in the ratio of 5 : 4 In a game, Kate lost half of her cards to Jack then had 35 cards.
  - (a) How many cards did Kate lose to Jack?
  - (b) How many cards did they have altogether?

1	0	2

Anc:	(2)	[2]
Ans:	(a)	[2]

Ans: (b)		2]
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- 45. A total of 20 boys and girls sold tickets for a charity show. Each ticket was sold at \$5. Each boy sold 5 tickets and each girl sold 3 tickets. If the amount collected by the boys was \$20 more than the amount collected by the girls,
  - (a) how many girls were there in the group?
  - (b) how many tickets were sold altogether?

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Ans: (a) \_\_\_\_\_[3] Ans: (b) \_\_\_\_\_[2]

46.  $\frac{1}{4}$  of May's savings was equal to  $\frac{2}{5}$  of Alice's savings. However, when Alice increased her savings by \$35 and May spent \$67, they had equal amount of money in their savings. How much money did Alice have finally?

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Ans: \_\_\_\_\_[5]

47. The seats in the auditorium of Eastside School are labelled as follows:

Row 1: 1
Row 2: 3 5
Row 3: 7 9 11
Row 4: 13 15 17 19
Row 5: 21 23 25 27 29

The rest of the seats follow the same pattern.

- (a) I am in the middle seat of row 9. What seat am I in?
- (b) Joe is in seat 65. What row is he in?
- (c) Lou is in seat 169. What row is he in?

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Ans:	(a)	[1]
Aris:	(b)	[2]

Ans: (c)\_\_\_\_\_\_[2]

- Alicia had some sweets. She kept  $\frac{1}{2}$  the candies plus 6 sweets for herself. She gave the remaining to Benny. Benny kept  $\frac{1}{2}$  of his share plus 7 sweets and gave the remainder to Carol. Carol at  $\frac{1}{3}$  of his share and had 8 sweets left.

  - (a) How many sweets did Carol get?(b) How many sweets did Alicia have at first?

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Ans:	(a)	 [3]	
Ans.	(0)	 IJ,	

Ans: (b) \_\_\_\_\_ \_[2]

End-of-Paper

#### Nan Hua Primary School

#### Primary 5 Maths SA1 Exam (2007)



01	O2.	Q3	Q4	Q5
2	2	2	3	3
O6	Q7	Q8	Q9	Q10
2	4	4	1	3
Q11	Q12	Q13	Q14	Q15
2	3	4	2	3

16. 
$$3\frac{8}{9}$$

17. 
$$3\frac{13}{14}$$

**20.** 
$$\frac{1}{10}$$

28. 
$$\frac{4}{5}$$

**29** 
$$\frac{1}{20}$$

32. 400 more

33. 200 sheets

34. 20 years old

35. 32£

36. 
$$\frac{1}{3}$$
 of \$27 = \$9 (food)  
Left = \$9 x 2 = \$18  
Total left = \$18 x  $\frac{1}{3}$  = \$6  
She had \$6 left.

Page 1 of 4

- 37. I bought 0.75¢ stamps,
- 38. Big x small = 15m<sup>2</sup>
  The only number are 5 & 3
  Check = 5m x 3m = 15m<sup>2</sup>
  If one side is 3m, then
  3m x 3m = 9m<sup>2</sup>
  If one side is 5m, then
  5m x 4m = 20m<sup>2</sup>
  3m x 4m = 12m<sup>2</sup>
  The area of z is 12m<sup>2</sup>
- 39.  $\frac{1}{3}$  of square B is shade

  1 unit of square B = 1 unit of square A

  We can tell =  $\frac{1}{2}$  of square A is shaded

Shaded: Unshaded 1: 3

The ratio is 1:3

- 40. PQRS breadth = 80cm
  PQRS area = 11200cm<sup>2</sup>
  Area of each small rect = 1129cm<sup>2</sup> ÷ 10 = 1120cm<sup>2</sup>
  Breadth of each = 80cm x 14cm = 1120cm<sup>2</sup>
  The breadth of each of the 10 rectangle is 14cm
- 41. Vol. of cubes y = 2cm x 2cm x 2cm = 8cm<sup>3</sup>

  Difference in vol. = 7 x 8 = 56cm<sup>3</sup>

  Their difference in volume is 56c<sup>3</sup>
- 42. 2 units = 159 65 24 40 = 301 unit = 15Ducks at first = 15 + 65 + 24 + 40 = 144The farmer had 144 ducks at first.

43. Area of the rect. = 
$$10 \text{cm} \times 20 \text{cm} = 200 \text{c}^2$$

Area of J =  $\frac{1}{2} \times 10 \text{cm} \times 10 \text{cm} = 100 \text{cm}^2$ 

Area of K =  $\frac{1}{2} \times 10 \text{cm} \times 5 \text{c} = 25 \text{cm}^2$ 

Area of ABCD =  $(200 - 200 - 100) \text{cm}^2$ 
=  $75 \text{cm}^2$ 

Fraction =  $\frac{75}{200}$ 
=  $\frac{15}{40}$ 
=  $\frac{3}{8}$ 

The fraction is 
$$\frac{3}{8}$$

- 44a. 1 unit =  $35 \div 7 = 5$ Kate lost =  $5 \times 2 = 10$ Kate lost 10 cards
- 44b. Total cards = 9 x 5 = 45 They had 45 cards altogether.
- 45a. There were 12 girls in the group.
- 45b. Boys = 8 x 5 = 40 Girls = 12 x 3 = 36 36 + 40 = 76 76 tickets were sold altogether
- 46. 3 units = \$(35 + 67) = \$1021 unit =  $\$102 \div 3 = \$34$ Alice finally had  $\$34 \times 5 = \$205$ Alice had \$205 finally

47a. I am in seat 81

47b. Joe is in Row 8

47c. Lou is in Row 13

**48a**. 44 6 19

2 units = 8 1 unit = 4 3 u = 12 Corol got 13 sweets

Coror got 15 sweets

48b. 12 + 7 = 19 19 + 19 + 6 = 44 44 + 44 = 88 sweets Alicia had 88 sweets at first.